

## NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER TECHNICAL REVIEW FORM

## OZONE GENERATION AND FEEDING (N.J.A.C. 7:10-11.16(i))

Water Purveyor	PWSID#	Municipality		
Provide the following information for (Attach additional copies of this page				
Purpose of				
Ozonation <sup>1</sup>				
Feed Gas	Feed Gas Rate lb/day			
Type of Ozone	Number of units			
Generator				
Capacity of units	Control Method <sup>2</sup>			
lb/day/unit				
Ozone Feed	Ozone dose rate			
Concentration %	mg/l			
Ozone Feed Rate	Number of			
lb/day	Contactors			
Type of	Capacity of			
Contactors	Contactor			
Volume of	Number of			
Contactor	Diffusers			
Diffuser type and size	Gas Flow Rate			
Transfer Efficiency	Detention Time			
Anticipated Ozone Residual	Type and number of Ozone Monitors			
Type of Ozone Destruction Unit	Capacity of Unit			
Number of Units				

- 1 Describe the purpose (i.e. pretreatment oxidation, odor removal, TOC removal; disinfection, etc.).
- 2 Indicate how the generators are controlled (i.e. flow pacing, residual pacing, etc.).

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Pag	ge 2 01 3	YES	NO	N/A	
Ge	eneral Information				
1.	For those ozone treatment facilities which treat multiple sources or whose capacity exceeds 20% of the system capacity, are a minimum of two ozone generators provided?				
2.	For those ozone treatment facilities which treat multiple sources or whose capacity exceeds 20% of the system capacity, are a minimum of two ozone contactors provided?				
3.	Is the variation in the accuracy of the feed system less than 5% of the intended dosage?				
4.	Are there means provided to accurately measure the amount of ozone fed?				
5.	Is equipment used for ozonation corrosion resistant?				
Oz	zone Generators				
1.	Is the ozone feed system electrically connected to either a well pump or a booster pump?				
2.	Is the ozone generator cooling water introduced through an air gap or other approved method to prevent back siphonage?				
3.	If Liquid oxygen used as a feed gas is a minimum of 30 days storage provided? If not is there 14 days storage with remote telemetry to supplier for scheduling deliveries?	_ _		0	
4.	Does the ozonation equipment have firm capacity to achieve the maximum design output of the station?				
Oz	zone Contactors				
1.	For pretreatment in surface water treatment plants are a minimum of two contactors provided?				
2.	Are contactors sealed to prevent escape of ozone to the atmosphere?				
2.	Is equipment (ozone distructors) provided to remove ozone from waste gas stream prior to discharge to atmosphere?				
4.	For those ozone treatment facilities which treat multiple sources or whose capacity exceeds 20% of the system capacity, are a minimum of two ozone distructors provided?				

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	reatment Building		YES	NO	N/A	
	_					
1.	Is the treatment building designed to meet the demand requ N.J.A.C. 7:10-11.6(a)?	irements pursuant to				
2.	Is auxiliary power provided?					
3.	Is the finished floor elevation a minimum of 1 foot above the flood elevation?	ne highest recorded				
Di	sinfection by ozone					
1.	Is the ozonation treatment system designed to provide suffithe water within the treatment plant with one treatment unit					
2.	Are the facilities designed to produce a ozone residual of_	?				
3.	For ozonation facilities which treat ground water sources, is contact time of minutes provided to produce the abo					
4.	For ozonation facilities which treat surface water or ground influence of surface water, is a minimum ozone CT value of provided to produce alog Giardia and alog v	of mg min/l				
5.	Is an alarm system to indicate ozonation failure provided for and systems which do not meet State microbiological standused for disinfection?	-				
6.	Is an ozone residual analyzer provided to determine ozone contactors?	residual leaving				
**	*Submit appropriate engineering plans, specifications, report	ts, etc. to substantiate you	r answe	ers. ***		
Ιh	ereby certify that answers provided herein are accurate and re	flective of the project being	g conside	ered for	approval.	
	gnature of engineer ofessional Engineer's Embossed Seal	Date N.J.	P.E. #			

Type or Print Name of Engineering Firm